



County of Fairfax, Virginia

ADDENDUM

DATE: February 18, 2016

ADDENDUM NO. 2

TO: ALL PROSPECTIVE BIDDERS
REFERENCE: IFB2000001806
FOR: Scrubber Centrifugal Pumps
DUE DATE/TIME: February 22, 2016 at 2:00 PM (**REVISED**)

The referenced Invitation for Bid is amended as follows:

1. The Technical Specifications are changed (**Bold**) as indicated below:

3.1 Materials of Construction

Volute/Casing	ASTM A995 CE8MN Grade 2A– Duplex Stainless Steel with extremely high corrosive and superior abrasion resistances
Impeller	CE8MN – Duplex Stainless Steel with extremely high corrosive and superior abrasion resistances – 13 ½” diameter rotation with 410 Stainless steel included
Shaft	AISI A276 Type 420 Stainless steel
Bearing Frame	ASTM A48 CL35 cast iron
Support Base	ASTM A36, fabricated steel
Mechanical Seal.....	Double mechanical seals made of 410 Stainless steel. 3” carbon / ceramic / BunaN side)
Impeller Wear Ring	Shall be 410 stainless steel
Volute/Casing Wear Ring	Shall be 410 stainless steel,
FrontHead	Material: CE8MN – Duplex Stainless Steel with extremely high corrosive and superior abrasion resistances
Backhead	ASTM A48 CL35 cast iron
Fasteners	ASTM A276 Type 316 Stainless steel
Nameplates.....	Stainless steel

3.2 Volute/Casing:

1. The volute is matched to the impeller and made of **ASTM A995 CE8MN Grade 2A– Duplex Stainless Steel** with extremely highly corrosive and superior abrasion resistances, and is of one-piece circular constant flow, equalizing pressure design with smooth fluid passages large enough to pass any size solid that can through the impeller.
2. Design shall permit the removal of the rotating assembly without disturbing the suction or discharge piping.
3. The volute is cast separate from the fronthead and is flanged with an ANSI flat face discharge flange. It is capable of rotation in 45° increments to accommodate piping orientation.
4. The volute is furnished with large cleanout openings located at the impeller centerline, to allow access to the impeller. Volute priming, drain and ½ inch minimum guage connections are provided.

Department of Purchasing & Supply Management

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3.3 Impeller

1. The impellers shall be of **ASTM A995 CE8MN Grade 2A– Duplex Stainless Steel** with extremely highly corrosive and superior abrasion resistances, in one piece and dynamically balanced to prevent excessive vibration
2. The impellers shall be single suction, enclosed two or more vanes, radial close flow design with sharpened loading vane and then tapered toward the trailing edge.
Vortex (Recessed) Impellers are not accepted.
3. The impeller and case wear rings shall be replaceable parts.
4. Impeller shall be keyed to the shaft allowing the rotating assembly to rotate reverserotation without any harm. The reverse rotation may be caused by a reverse flow situation or a wrong motor connection.

3.4 Fronthead

1. The fronthead is made of **ASTM A995 CE8MN Grade 2A– Duplex Stainless Steel** with extremely highly corrosion and superior abrasion resistances.
2. The fronthead is cast separately to the volute and supplied with an ANSI flange for connection to the suction piping.



Viola Laird, CPPB
Contract Specialist I

THIS ADDENDUM IS ACKNOWLEDGED AND IS CONSIDERED A PART OF THE SUBJECT INVITATION FOR BID:

Name of Firm

(Signature)

(Date)

A SIGNED COPY OF THIS ADDENDUM SHOULD BE INCLUDED IN THE WITH YOUR BID OR RETURNED PRIOR TO THE DUE DATE/TIME.

Note: SIGNATURE ON THIS ADDENDUM DOES NOT SUBSTITUTE FOR YOUR SIGNATURE ON THE ORIGINAL BID DOCUMENT. THE ORIGINAL BID DOCUMENT MUST BE SIGNED.